

CROSS REFERENCE TO RELATED APPLICATION(S)

[0001] This application is a national stage application of PCT Application No. PCT/JP2004/014286 which was filed on September 22, 2004 and published on March 31, 2005 as International Publication No. WO 2005/028693 (the "International Application"), the entire disclosure of which is incorporated herein by reference. This application claims priority from the International Application pursuant to 35 U.S.C. § 365. The present application also claims priority under 35 U.S.C. § 119 from Japanese Patent Application No. 2003-332013, filed September 24, 2003, the entire disclosure of which is incorporated herein by reference.

FIELD OF THE INVENTION

[0002] The present invention relates to a hot rolled steel sheet for processing having superior bake hardenability after aging, and a method for manufacturing the same.

BACKGROUND INFORMATION

[0003] The use of light metals such as aluminum (Al) alloy and high-strength steel sheets for automobile members has been promoted for the purpose of reducing weight in order to improve automobile fuel consumption. The light metals such as Al alloy offer the advantage of high specific strength. However, since such metals are much more costly than steel, their applications are limited to special applications. Thus, there is a need to increase the strength of steel sheet to promote cost decreases and automobile weight reductions over a wider range.

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